P/021/61/000/001/002/002
A107/A126

AUTHOR: Sokalski, Kazimierz, Engineer

TITLE: Technical progress in the production of low-voltage equipment

PERIODICAL: Przegląd Elektrotechniczny, no. 1, 1961, 7 - 12

TEXT: This paper deals with the development of the low-voltage equipment production in Poland. Actually 15 electrical equipment plants with 450 workers are in Poland, of which 9 are low-voltage equipment plants with 220 workers. The production of low-voltage equipment increased from 1955 to 1959 from 29% to 45%. The following plants and institutes cooperated in the development of this industry: Locomotive Plant, Engineering and Automation Plant, Department of Electrical Equipment of the Polytechnic, Łodz; Department of High Voltage and Distributors of the Polytechnic, Gdansk; Naval Electrical Engineering Plant IEL, Gdansk; Departments of Electrical Engineering of the Polytechnics, Warsaw and Łodz, and the Electrical Material Testing Plant IEL, Wrocław. The following new equipment was produced: The "Elester" Plant (A-2) produces St-0, 8 amp and St-2, 25 amp (Fig. 1) alternating current contactors; the "Elan" Plant (A-13) produces SC-100, SC-200

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and SC-400 contactors, whereas the prototype of the SC-600 contactor will be tested in the Polytechnic Łodz. The "Apator" Plant (A-7) produces small-size S-200 contactors (Figs. 2, 5 and 6), designed by Engineer Sapiejewski, IEL Plant, Gdansk. The new type contactors are of better quality and smaller in weight and size. In the following list the weights of old and new type contactors are compared:

Old type:	N 107 III-15	N 107 III-100	St-III-200	St-III-350
	1.2 kg	9.5 kg	15 kg	40 kg
New type:	SM-1 15 amp	SC-100	SC-200	SC-400
	0.35 kg	7.4 kg	9.9 kg	26 kg

The A-8 Plant produces SE DC contactors and breakers of 25, 40, 80, 150, 300, and 600 amp (Fig. 3). The A-7 and A-8 Plants produce new type fuses and the A-32 Plant low-voltage distributors designed by Engineer Machur. In a non-specified plant APU 15:200 and 400 amp 15 kamp and APU 30, 400, 600 and 1,000 amp 30 kamp switches (Fig. 4) are produced on a large scale. The A-12 Plant produces various electric traction motors for use on road, rail and mine vehicles. In non-specified plants various motors especially for whinches (Fig. 7) are produced. The "Elester" Plant produces electrical

Technical progress in the production of...

equipment for cranes, elevators, etc. (Fig. 8). Further are produced various switchboards, auxiliary motors, signaling devices, production lines, etc. The author describes various difficulties in production, i. e. lack of tooling, laboratory equipment, trained personnel, etc., and gives some suggestions for technical and mechanical improvement of electrical equipment plants. There are 8 figures.

Card 3/7

SOKALSKI, Kazimierz, inz.

Present state and development trends in the electric apparatus making industry. Przegl elektrotechn 38 no.5:191-195. '62.

1. Zjednoczenie Przemyslu Maszyn i Aparatow Elektrycznych, Warszawa.

PTA

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625.11

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Sokalski K. Observations Made and Experience Gained in the Construction of Concrete Road Surfaces.

„Spostrzeżenia i doświadczenia z budowy nawierzchni betonowej" Drogownictwo No 3, 1951, pp 69 77, 20 figs

The steady increase in the use of concrete road surfaces is due to the advantages offered by this type of surface, namely 1) rapid progress of work, even when employing inadequately skilled labour, 2) the possibility of mechanising all working processes, 3) low cost in the case of mechanised working processes, 4) high resistance to wear, etc. Disadvantages of concrete road surfaces: 1) splitting of the surface in the event of faulty construction of foundations, 2) closing the road to traffic for a comparatively long time, 3) lesser resistance of the road surface to wear caused by horse traffic, etc. Construction of experimental road sectors. Road surfacing materials. Technology of concrete laboratory tests of materials, and mixtures, checking the setting time of cement. Road surface cross section of experimental sectors. Work organisation set of machinery required. Advantages of mechanisation.

SOKALSKI, K.

"Let Us Save Concrete." p. 85, DROGOWNICTWO, Vol. 9, No. 4, Apr. 1954. Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

SOKALSKI, K.

"First combustion rollers of domestic production." p. 266.
(DROGOWNICTWO Vol. 9. No. 11, Nov. 1954. Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL). LC. Vol. 4. No. 4.
April 1955. Uncl.

SCKALSKI, K.

Guiding principles for the courses of activity of the Road Construction Institute. p. 169. Vol. 10, no. 7, July 1955; Drogownictwo.

SOURCE: East European Accessions (EEAL), LC, Vol 5, no. 3, March 1956.

[illegible] I, R.

Machinery for the preparation of a bituminous mass of Polish production. p. 69.

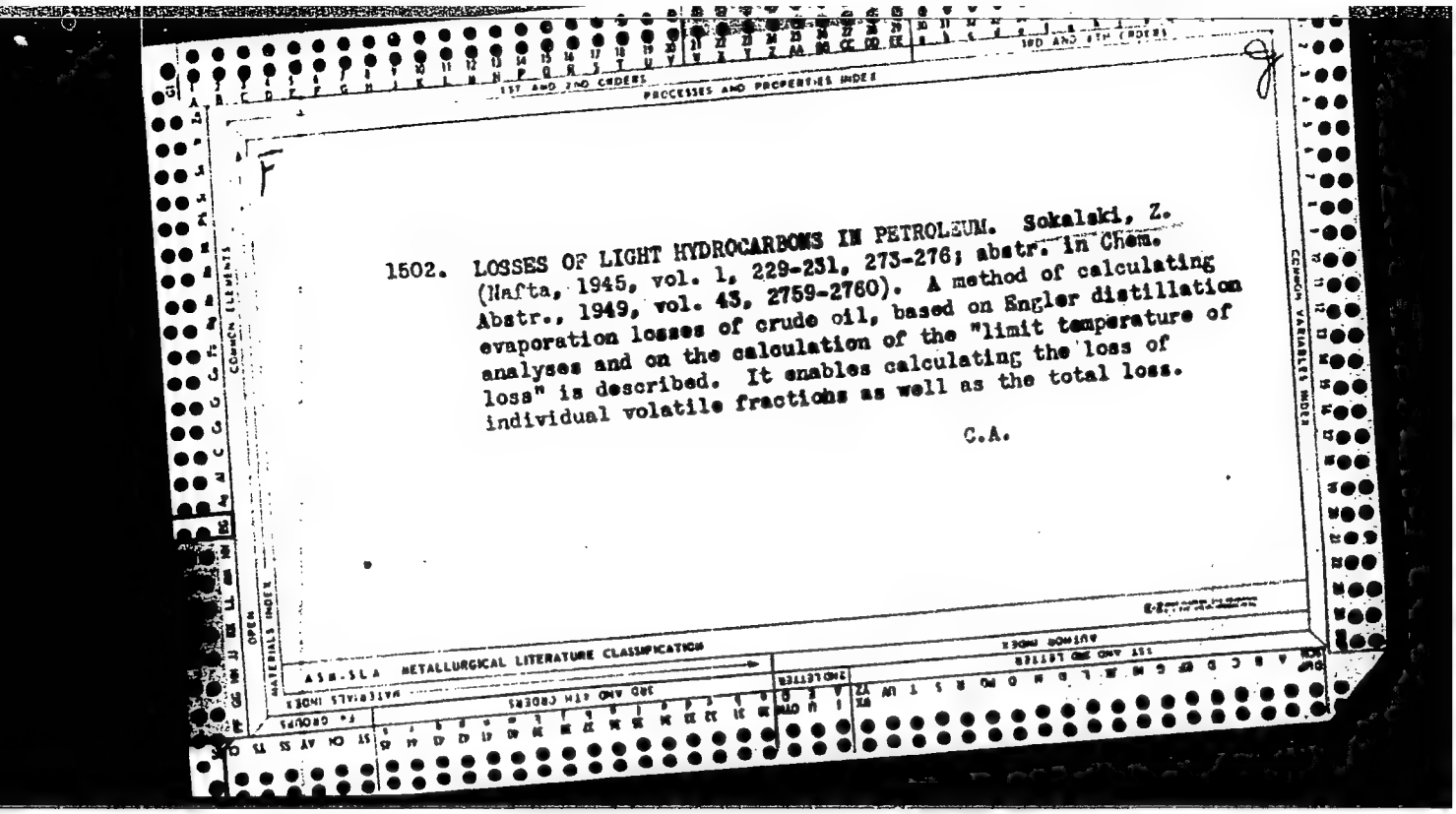
BUDOWNICTWO. (Wydawnictwo Komunikacyjne) Warszawa, Poland. Vol. 14, no. 3, March 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 7, July 1959

Uncl.

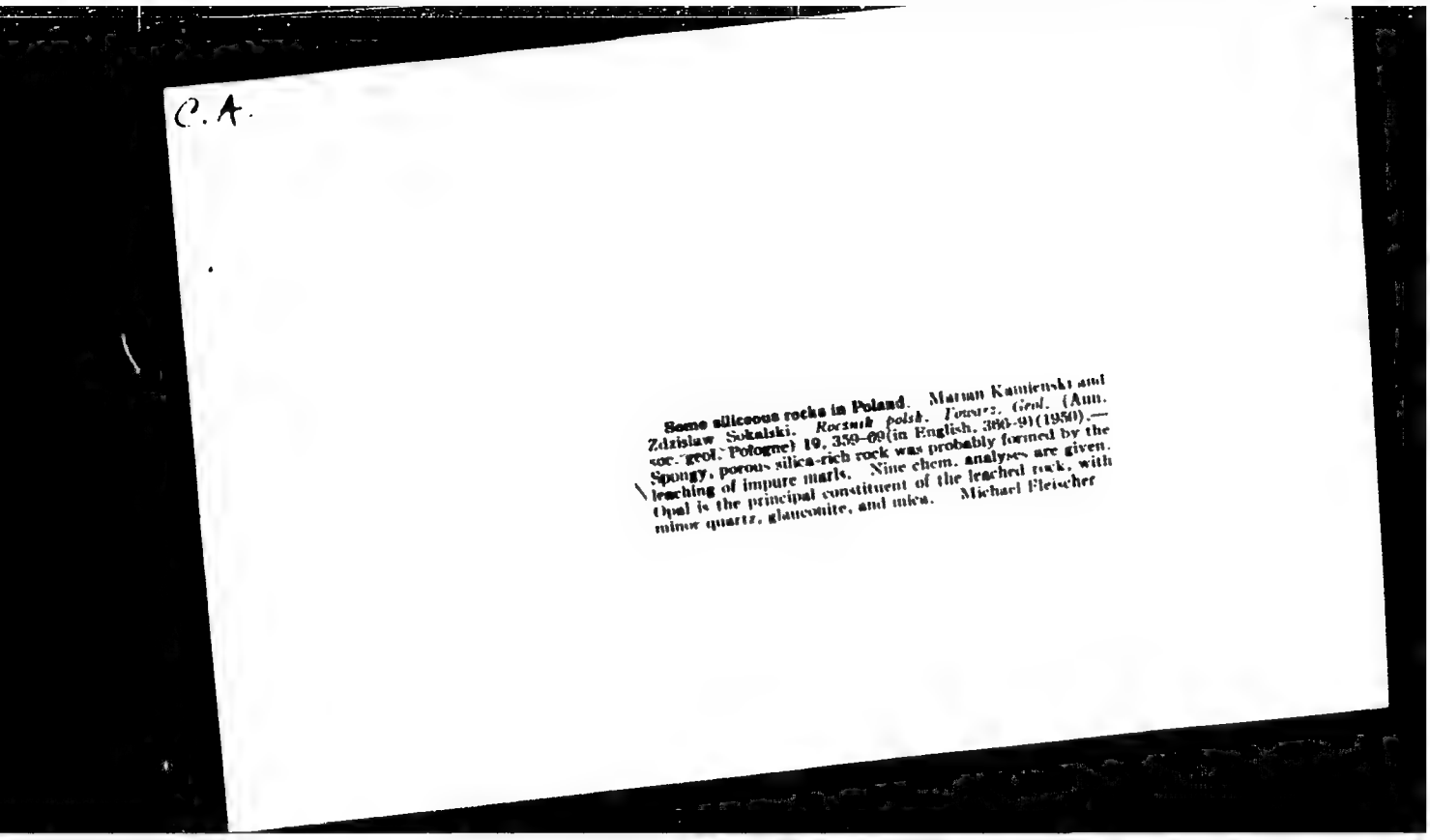
SOKALSKI, K.

Construction of electric apparatus in Poland, conditions and trends in its development. Mashinostroene 12 no.1:11 Ja '63.



1502. LOSSES OF LIGHT HYDROCARBONS IN PETROLEUM. Sokalski, Z. (Nafta, 1945, vol. 1, 229-231, 273-276; abstr. in Chem. Abstr., 1949, vol. 43, 2759-2760). A method of calculating evaporation losses of crude oil, based on Engler distillation analyses and on the calculation of the "limit temperature of loss" is described. It enables calculating the loss of individual volatile fractions as well as the total loss.

C.A.



C.A.

Some siliceous rocks in Poland. Marian Kamieński and Zdzisław Sokalski. *Rocznik polsk. Towarz. Geol.* (Ann. soc. geol. Pologne) 19, 359–69 (in English, 380–91) (1950).—Spongy, porous silica-rich rock was probably formed by the leaching of impure marls. Nine chem. analyses are given. Opal is the principal constituent of the leached rock, with minor quartz, glauconite, and mica. Michael Fleischer

SOKALSKI, Zdzislaw

POLAND

Determination of electrokinetic potential by measuring the current flow. Zdzislaw Sokalski (Politech. Śląska, Poland). *Zeszyty Nauk. Politech. Śląsk., Chem.* No. 3, 7–10 (1961).—S. thought that in different samples of distd. H_2O having exactly the same sp. cond. (I) the electrokinetic potential (II) varied, owing to traces of some ions. Only samples from the same batch of distd. H_2O had the same I. In the app. of S., H_2O under pressure of clean compressed air (free from traces of CO_2) was flowing through Jena-glass capillary tubes of 0.054 and 0.023 cm., resp., internal diam. and 41 cm. long. Under pressure and 20° the velocity of H_2O in the larger capillary tube was 158.8 and in the smaller one 37.9 cm./sec. The potential difference across the larger capillary tube was 5.25–5.55 and in the smaller one 2.50–2.65 v. Special construction of the app. avoided contamination of the H_2O during its pouring into the measuring vessel. I of twice-distd. H_2O was 0.23×10^{-6}; that of once-distd. H_2O was 1.7×10^{-6} Ω^{-1}cm.$^{-1}$ (Ω is ohm). All other samples of water were prepd. by mixing the above batches. When I was 0.51, 0.70–0.74, 0.98–1.02, and 1.76 Ω^{-1} cm.$^{-1}$, II was 102 (at 20.0°), 89 (at 22.7°), 78.5 (at 23.0°), and 77 (at 23.5°) mv., resp. The above values for II were calcd. from the formula: $\Pi = \zeta = (30 \times 10^{10} \times L)$-$\eta(U/D\rho gR^2WH)$, where L is length of capillary tube in cm., U max. potential difference in v., D dielec. const. of liquid, ρ sp. gr. of liquid, η viscosity coeff. in g./sq. cm., sec., ζ elec. potential in the liquid, R internal diam. of the capillary tube in cm., W resistance in Ω, and H liquid head in cm. S. found that reproducible results were obtained provided H_2O was completely free of CO_2 and the capillary tube well rinsed with dild. HNO_3 or HCl followed by rinsing with the tested sample of water for 30 min.

P. J. Hendel

SOKALSKI, Z.

Category: Poland B-12

Abs Jour: Zh--Kh, No 3, 1957, 7671

Author : Sokalski, Z.
Inst : Not given
Title : Determination of Zeta Potential from Streaming Potential Measurements

Orig Pub: Zesz. nauk. Politechn. Slaskiej, 1955, No 3, 7-40 (published in Polish)

Abstract: The causes of the lack of reproducibility in the results of the determination of the zeta potential (EKP: elektrokinetichniy potentsial) of pure H_2O (I) obtained from streaming potential measurements have been investigated. It is noted that deviations in the determination of the specific conductivity (K) of I can cause large variations in the value of EKP; hence particular attention is devoted to the methods used in the measurement of the K of I. A method for the measurement of K of I is described which does not require the sampling of the I in the cell. A method for the determination of the K

Card : 1/2 -5-

Category: Poland

Abs Jour: Zh--Kh, No 3, 1957, 7671

of liquids in capillary tubes is described; the method is based on the determination of the time rate of change of the potential of a condenser K charged with a Helmholtz potential. It is shown that for uniform liquid flow the charging of K by the Helmholtz potential follows an equation of the type $\mu = \mu$ (max) $[1-\exp(-t/cw)]$ where μ is the voltage, t is the time, c is the capacitance of K and w is the resistance; the above equation can be used only when I has a constant κ . Conditions have been developed under which equal samples of I give reproducible charging curves of K. Constant EKP values are obtained only for identical samples when I of given κ and a given capillary are used. When separately prepared samples of I are used, different EKP values are obtained notwithstanding the identity in κ values.

Card: 2/2

-6-

Sokalski 2

622.791 : 541.128.35

1091

Sokalski Z., Szota P. Introductory Investigations of the Refinement of Silicon Earth for the Production of Carriers.

„Wstępne badania nad uszlachetnianiem ziemi krzemionkowej do produkcji nośnika". Przemysł Chemiczny. No. 8, 1955, pp. 437—439, 6 tabs.

Five methods of refining silicon earth (opal silica) were used, including: 1) conservative etching with 18% HNO_3; 2) etching with 6.5% HNO_3 in autoclave under high pressure applying sudden vapour expansion; 3) etching as under 2) without expansion; 4) roasting and 5) etching with 6.5% HNO_3 and roasting. The activity of cobalt-thorium-magnesium catalysts on carriers prepared were investigated over 500 hours, such activity being expressed in the yield of the products of synthesis. The best results were obtained for catalysts on carriers prepared by the conservative method; almost equally good were catalysts on carriers prepared by etching with 6.5% HNO_3 under pressure with sudden vapour expansion.

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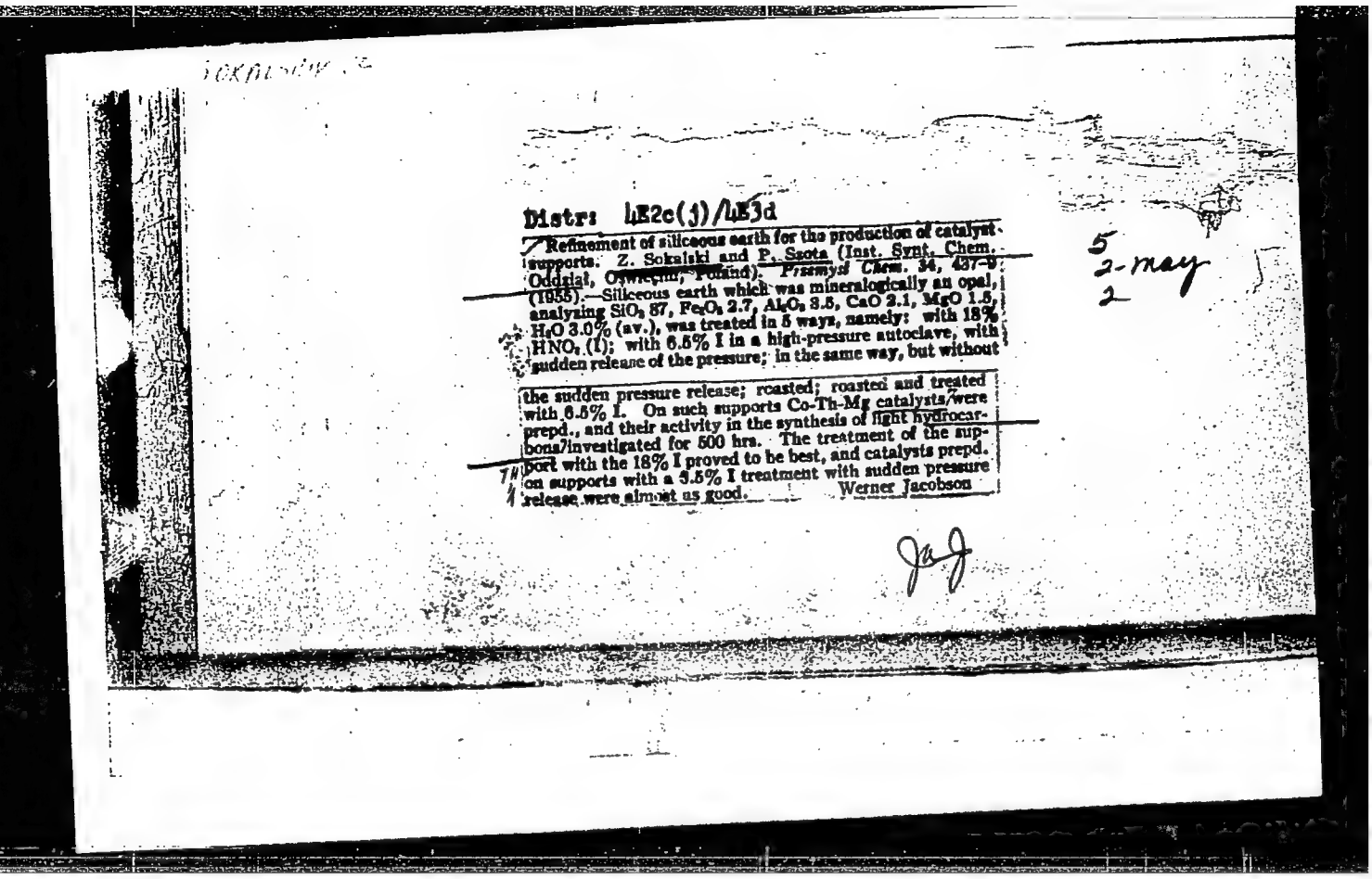

Distr: 4E2c(j)/4E3d

Refinement of siliceous earth for the production of catalyst supports. Z. Sokalski and P. Szota (Inst. Synt. Chem. Oddział, Oświęcim, Poland). *Przemysł Chem.* 34, 437-9 (1955).—Siliceous earth which was mineralogically an opal, analyzing SiO_2 87, Fe_2O_3 2.7, Al_2O_3 3.5, CaO 2.1, MgO 1.5, H_2O 3.0% (av.), was treated in 5 ways, namely: with 18% HNO_3 (I); with 6.5% I in a high-pressure autoclave, with sudden release of the pressure; in the same way, but without the sudden pressure release; roasted; roasted and treated with 6.5% I. On such supports Co-Th-Mg catalysts were prepd., and their activity in the synthesis of light hydrocarbons investigated for 500 hrs. The treatment of the support with the 18% I proved to be best, and catalysts prepd. on supports with a 6.5% I treatment with sudden pressure release were almost as good. Werner Jacobson

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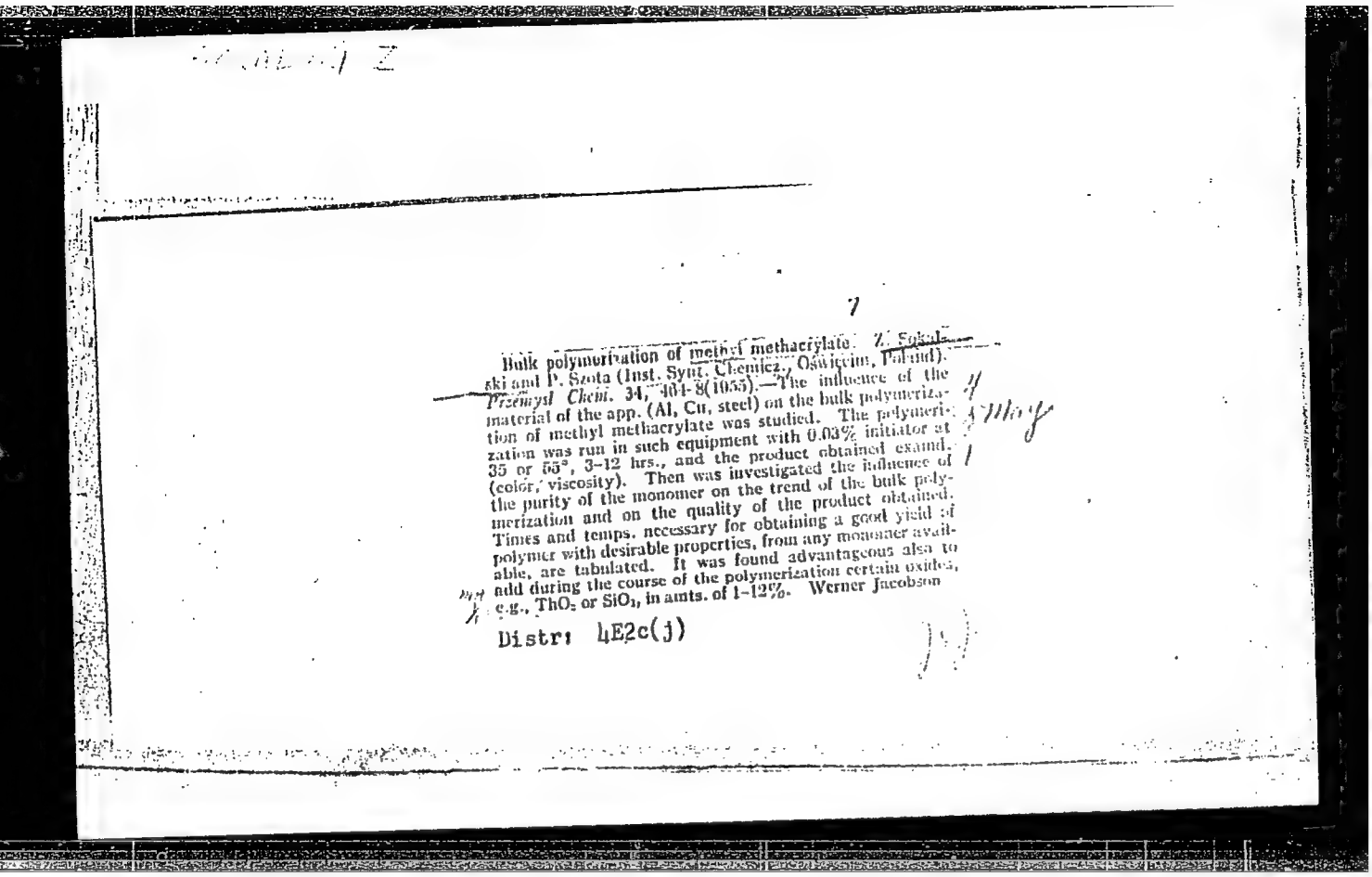

Bulk polymerization of methyl methacrylate. Z. Sokalski and P. Szota (Inst. Syntet. Chemicz., Oświęcim, Poland). *Przemysl Chem.* 34, 404-8(1955).—The influence of the material of the app. (Al, Cu, steel) on the bulk polymerization of methyl methacrylate was studied. The polymerization was run in such equipment with 0.03% initiator at 35 or 55°, 3–12 hrs., and the product obtained examd. (color, viscosity). Then was investigated the influence of the purity of the monomer on the trend of the bulk polymerization and on the quality of the product obtained. Times and temps. necessary for obtaining a good yield of polymer with desirable properties, from any monomer available, are tabulated. It was found advantageous also to add during the course of the polymerization certain oxides, e.g., ThO_2 or SiO_2, in amts. of 1–12%. Werner Jacobson

Distr: 4E2c(j)

SOKALSKI, Z.

"Chemical and chemistry-connected industries in the Korean People's Republic."

p. 141 (Chemik) Vol. 10, no. 5, May 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

SOKALSKI, Z.; DUBIK, J.

Thermodynamics of the Fisher-Tropsch synthesis.

p. 69 (Wiadomosci Chemiczne) Vol. 11, no. 2, Feb. 1957, Wroclaw, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

SOKALSKI, Zdzislaw; KRAMARZ, Wanda

Physicochemical characteristics of binding masses used in disulfuration of synthetic gases. Rocz chemii 34 no.2:529-552 '60. (EEAI 10:1)

1. Katedra Chemii Fizycznej Politechniki Slaskiej, Gliwice i Zaklad Badawczy Zakladow Chemicznych Oswiecim
(Pyrrhotine) (Water gas) (Sulfur) (Desulfurization)

SOKALSKI, Zdzislaw

Measuring nozzles for high pressure. Przem chem 39 no.4:245-246 Ap '60.

1. Katedra Chemii Fizycznej, Politechnika Slaska, Gliwice

SOKALSKI, Zdzislaw, prof., dr. inz., (Gliwice, ul. Strzedy 23)

The physico-chemical properties of protein colloids. Folia Morphologica 12 no. 2/3:77-87 '61.

1. Department of Physical Chemistry, Silesia Polytechnic School, Gliwice.

SOKALSKI, Zdzislaw; KRAMARZ, Jerzy

On effective surface concentrations of reagents at stationary state on iron catalysts in the Fischer-Tropsch hydrocarbons synthesis. Rocz chemii 35 no.4:1029-1040 '61.

1. Department of Physical Chemistry, Silesian Institute of Technology, Gliwice.

SOKALSKI, Zdzislaw; IZYDORCZYK, Jan

Kinetics of silver corrosion in aqueous $(NH_4)_2S$ solutions registered by the electrokinetic potential.
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1. Department of Physical Chemistry, Technical University, Gliwice.

SOKALSKI, Zdzislaw; MISNIAKIEWICZ, Walery

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1. Katedra Chemii Fizycznej Politechniki Slaskiej, Gliwice.

SOKALSKI, Zdzislaw; DZIEWICKI, Zygmunt

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SOKALSKI, Zdzislaw

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SOKALSKI, Zdzislaw

Electrokinetic phenomena in microporous and microgauge systems used as catalyst carriers. Przem chem 41 no.10:548-552 O '62.

1. Katedra Chemii Fizycznej, Politechnika Slaska, Gliwice.

SOKALSKI, Zdzislaw; PODKOWSKA, Jozef

Kinetic and structura' studies on powdered nickel-cobalt alloy catalysts in hydrogenation of benzene. Rocz chemii 37 no. 7/8: 887-897 '63.

1. Department of Physical Chemistry, Silesian Institute of Technology, Gliwice.

SHEPOVALOV, S.T.; SOKAL'SKIY, A.M.; MASLOV, T.M., veterinarnyy vrach

Case of enzootia of malignant catarrhal fever in cattle.
Veterinariia 36 no.9:37-38 S '59. (MIRA 12:12)

1.Nachal'nik veterinarnogo otdela Ternopol'skogo oblsel'khozupravleniya (for Shepovalov). 2.Glavnyy veterinarnyy vrach Trembovlyanksogo rayona (for Sokal'skiy).

(Cattle--Diseases and pests)

LEONT'YEV, Ye.A.; LUK'YANOVICH, V.M.; SOKAL'SKIY, Z.Ya.

Electron microscopy of Polish silica from deposits in the Sandomierz region. Izv.AN SSSR. Otd.khim.nauk no.10:1168-1170 O '56. (MLRA 9:12)

1. Institut fizicheskoy khimii Akademii nauk SSSR Politekhnicheskiy institut, Glivitse, Pol'sha.
(Sandomierz region--Silica)

SOKANOVSKIY, B.V.

Notes on bark beetles of the U.S.S.R. (Coleoptera, Ipidae). Biul. MOIP. Otd.biol. 59 no.5:13-22 S-O '54. (MLRA 8:1)
(Bark beetles)

SOKANOVSKIY, B.V.

New species of bark beetles in Central Asia. Dokl. AN Tadzh.SSR no.17:43-44 '56. (MLRA 9:11)

1. Institute nauchnoy informatsii Akademii nauk SSSR.
(Tajikistan--Bark beetles)

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Systematics and distribution of bark beetles (Coleoptera, Ipidae) in the U.S.S.R. and adjacent countries. Ent. oboz. 39 no.3:674-678 '60. (MIRA 13:9)

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1. Khar'kovskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva (for Osetrov). 2. Litovskaya sel'skokhozyaystvennaya akademiya (for Sokas).

[redacted], A.

"Chronic Suppurative Otitis Media With Emphasis on Radical Trepanation Without Plastic Surgery." p. 59. (Vojnosanitetski Pregled, Military-Medical Review, Vol. 10, no. 1/2 Jan/Feb. 1953, Beograd)

SO: Monthly List of East European Accessions. Vol. 3, no. 3. Library of Congress. March 1954. Uncl.

SOKCIC, A., putpukovnik dr.

Injuries of the frontal and ethmoidal sinuses. Voj. san. pregl., Beogr. 11 no.11-12:510-516 Nov-Dec 54.

1. Otorinolaringoloska klinika VMA.
(WOUNDS AND INJURIES
ethmoid & frontal sinus)
(ETHMOID SINUS, wds. & inj.)
(FRONTAL SINUS, wds. & inj.)

SOKCIC, Ante, Ppuk.doc.dr.

Otogenous paralysis of the facial nerve and its therapy. Srpski arh.celok.lek. 87 no.11:1389-1399 Nov. 54.

1. Klinika za bolesti uva, nosa i grla Vojno-medicinske akademije JNA u Beogradu. Nacelnik: ppuk.doc.dr Ante Sokcic.

(PARALYSIS,
facial, ther.)
(NERVES, FACIAL, paralysis,
ther.)

SOKCIC, A.

Osteoma of the frontal sinus. Med.preg.,Novi Sad 8 no.1:35-41 1955.

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(FRONTAL SINUSES, neoplasms
osteoma, case reports (Ser))
(OSTEOMA,
frontal sinus, case reports (Ser))

SOKCIC, Ante, doc.dr.

Surgical treatment of Bell's plasy of the facial nerve. Med. glasn. 9 no.2-3:67-71 Feb-Mar '55.

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Bell's palsy, surg.)

SOKCIC, Ante, Potpukovnik doc., dr.

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Voj. san. pregl., Beogr, 13 no.7-8:325-333 July-Aug 56.

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(FACIAL PARALYSIS, surg.
decompression, indic. (Ser))

SOKCIC, Anate, sanitetski pukovnik prof. dr

Contribution to surgical therapy of gunshot injuries of the mastoid. Voj.san.pregl., Beogr. 17 no.4:395-399 Ap '60.

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(MASTOID wds. & inj.)
(WOUNDS GUNSHOT surg.)

SOKCIC, Ante; MITROVIC, Momsilo

Tumors of the glomus jugulare. Srpski arh. celok. lek. 89 no.10:1139-1147 O '61.

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(GOMANGIOMA case reports)

SOKCIC, Arte, sanitetski pukovnik, prof. dr.; [illegible], Kamilo, sanitetski potpukovnik, dr.; [illegible], Emil, sanitetski kapetan I klase, dr.

A case of foreign body in a newly formed esophagus. Vojnosanit. pregl. 21 no.4:257-259 Ap '64.

1. Vojnomedicinska akademija u Beogradu, Klinika za uho, nos i grlo.

SOKELE, E.

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27

5341. REMOVAL OF SULPHUR FROM COKE. PT III. Lovreček, I., Dusman, E. and Sokele, E. (Kem. Ind., Zagreb, 1957, vol. 6, 1-4). The effect of inorganic additives, such as aluminium trioxide, chromic oxide, molybdic acid, iron filings and liquid aluminate, on removal of sulphur in the process of coking of some Yugoslav coals was investigated. Experiments were carried out at 800°, taking 100 min to reach this temperature. Coking was carried out for two and for four hours and in the case of aluminium trioxide, additions of 0.25, 1.0 and 2.0% were tried. Results indicate a certain catalytic action: best results were obtained with liquid aluminate after additional washing of coke. By varying the conditions of coking and addition of suitable catalysts the sulphur content of coke can be greatly reduced. S.C.I.

4T

SOKELE, Emilijan, ing.; HACKMAN, Bjor, ins.

Determination of the filtration constante of viscose. Kem ind 9 no. 10:251-256 O '60.

1. Fabrika celuloze, Banja Luka (for Sokele). 2. Oy Kaukas Ab, Finnland (for Hackman).

SOKERIN, P. I.

SOKERIN, P. I. - Inzh. i BAUMGART, V. C. - Prof. i DULNEV, V. B. - Kand. Tekhn. Nauk St. Nauchn. Sotr.

Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki im. B. Ye. Vedeneyeva. Ratsionalizatsiya konstruktsiy otstoynykh sooruzheniy Page 85

SO: Collection of Annotations of Scientific Research Work on Construction, completed in 1950.
Moscow, 1951

SOKEROV, KHr.

MAVRODINOV, N.; SOKEROV, KHr.; MADZHAROV, G.

Some functional manifestations of hypertension during treatment in the health resort of Bianka. Suvrem. med., Sofia 7 no.9:41-48 1956.

1. Iz III vutreshna klinika pri ISUL (Direktor: dots. V. TSonchev) i sanatoriym No 2-Bankia. (Gl. lekar: D. Kochankov).
(HYPERTENSION, ther.
determ. of physiol. manifest. during & after ther. in health resort)

ACC NR: AT7005779 SOURCE CODE: BU/2506/66/009/000/0101/0118

AUTHOR: Sokerova, D.; Grigorova, E.--Grigorova, Ye.; Gochev, P.

ORG: none

TITLE: Investigation of the elements and seismotectonic characteristics of the 15 March 1964 earthquake in the Yambol region

SOURCE: Bulgarska akademiya na naukite. Geofizichniya institut. Izvestiya, v. 9, 1966, 101-118

TOPIC TAGS: earthquake, seismicity, macroseism, ~~epicenter, focal depth~~, earth crust, seismic wave, SEISMOGRAPHY / YAMBOL REGION

ABSTRACT: The earthquake of 15 March 1964 in the Yambol region was investigated using macroseismic and instrumental data. The magnitude of the earthquake was determined to be M = 4, while its intensity at the village of Skobelevo was VI. The earthquake originated at 20 hr 55 min 16 ± 0.5 sec at a focal depth of 5—8 km. The geographic coordinates of the epicenter were determined to be $\phi = 42°30.7'$ and $\lambda = 26°23.6'$. The epicenter location error is believed not to exceed ± 3 km. The velocities of body waves in the seismic zone were calculated to be as follows: $V_P = 6.48 \pm 0.024$, $V_S = 4.15 \pm 0.018$, $V_{Pg} = 4.72$, and $V_{Sg} = 3.20$ km/sec. The reason for the low values of seismic waves in the area in comparison to other regions in Europe were not established and will be the subject

Card 1/2 UDC: none

ACC NR: AT7005779

of a future study. The depth to the Mohorovicic discontinuity in the Yambol region was determined to be 34 ± 4 km. The geotectonic characteristics of the area and the origin of the earthquakes are discussed. It was found that the earthquakes in the Yambol seismic zone are associated primarily with two [illegible]te, extending to depths between 5 and 25 km. Orig. art. has: 13 formulas, 12 figures, and 6 tables. [CS]

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Card 2/2

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